

## CLIMATOLOGICAL DATA FOR SEPTEMBER, 1913.

## DISTRICT NO. 8, TEXAS AND RIO GRANDE VALLEY.

B. BUNNEMEYER, District Editor.

## GENERAL SUMMARY.

September was cool and wet, with an unusually large number of cloudy and rainy days. In New Mexico it was the coldest September of record, and in Texas the coldest since 1889, when the mean temperature for the State was  $0.8^{\circ}$  lower than during the current month. While the extremes of temperature were large, the minimum temperatures as a rule were not as low as recorded in some preceding years. The low mean was due more to low day temperatures resulting from excessive cloudiness than to cold nights. Frosts were general in northern and north-central New Mexico on the 25th and 26th, which is fully two weeks earlier than usual.

Precipitation was frequent in all parts of the district and excessive over a large portion of Texas, especially in coast and eastern counties, where at many stations the monthly amounts exceeded 10 inches, and at one station 20 inches. The average rainfall for the State of Texas during the current month exceeded that of the previous wettest September by  $1.30^{\circ}$  inches. Less than the normal rainfall occurred in the middle Rio Grande watershed and in a few western and southwestern counties of Texas. Beneficial showers in the western portion of the district between the 3d and 11th, and in the eastern portion of the district between the 8th and 13th, broke the drought in all sections. Excessively heavy rains during the last week did considerable damage to crops in the field and flooded small streams and lowlands.

The snowfall was unusually heavy in the mountain districts. The heaviest monthly fall in Colorado was 15 inches at Platoro and in New Mexico, 21 inches at Anchor Mine.

The number of rainy days was large, averaging 8 in Colorado and New Mexico and 9 in Texas. The greatest and least monthly amounts were, respectively, in Colorado, 3.50 inches at Cumbres and 0.90 inch at La Veta Pass; in New Mexico, 6.36 inches at Plainview and 0.46 inch at Rio Grande Dam; and in Texas, 22.59 inches at Port Arthur and 0.60 inch at El Paso. Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at 2 stations in New Mexico and at 68 stations in Texas, the heaviest being 9 inches at Hebbronville on the 24th.

The wind movement was light and the prevailing winds were from the southwest in the western portion of the district, from the south in the middle portion, and from the southeast along the coast.

## TEMPERATURE.

The average temperature deficiency was  $3.1^{\circ}$  in Colorado,  $3.5^{\circ}$  in New Mexico, and  $3.4^{\circ}$  in Texas. The first week was a continuation of the hot and dry weather of July and August, but after the 8th the daily temperatures were persistently below the normal except from the 18th to 20th, when the day temperatures were unusually high,

especially in the western half of the district. Marked cool periods occurred from the 11th to 17th and from the 21st to 28th. The daily range of temperature varied from  $9^{\circ}$  on the Texas coast to  $35^{\circ}$  in the extreme northwestern portion of the district.

The highest and lowest temperatures reported were, respectively, in Colorado,  $83^{\circ}$  at Saguache on the 7th, and  $17^{\circ}$  at Wagon Wheel Gap Experiment Station on the 24th; in New Mexico,  $100^{\circ}$  at Artesia on the 19th, and  $21^{\circ}$  at Senorito on the 26th; and in Texas,  $107^{\circ}$  at Dallas and Jewett on the 5th and at McKinney on the 6th, and  $35^{\circ}$  at San Angelo on the 23d. The local monthly means ranged from  $45.2^{\circ}$  to  $53.1^{\circ}$  in Colorado, from  $47.7^{\circ}$  to  $69.6^{\circ}$  in New Mexico, and from  $62.6$  to  $80.6^{\circ}$  in Texas.

## PRECIPITATION.

The average monthly precipitation for the Rio Grande watershed was 2.09 inches, which is 0.27 inch greater than normal. It was unevenly distributed, with a deficiency over the middle portion and a large excess below Eagle Pass, Tex.

In the Rio Pecos watershed every reporting station received more than the average amount of moisture, but the excess was greatest over the lower half. The average for the watershed was 3.24 inches, which is 1.11 inches more than normal.

The precipitation over the Texas watersheds was heavy, with excesses ranging from 1.73 inches for the Nueces to 10.21 for the Neches. The rainfall was less than normal over limited areas in the upper Nueces and Guadalupe watersheds and at one or two stations in the middle Colorado and middle Brazos drainage basins, but elsewhere the excess was general. The following are the average monthly amounts in inches and hundredths for the various Texas watersheds; Nueces, 4.47; San Antonio, 8.03; Guadalupe, 8.08; Lavaca, 9.53; Colorado, 4.64; Brazos, 4.80; Trinity, 6.93; Neches, 13.07; Sabine, 9.62; and coastal plains, 11.33.

## RIVER CONDITIONS.

The heavy rains between the 8th and 13th soaked well into the ground, as evidenced by the small run-off; but the rains between the 25th and 27th caused rises in all the streams of the district. The Guadalupe was at flood stage in its extreme lower portion, and the lower Rio Grande and lower Sabine became bank full. At Brownsville, Tex., a levee broke and the water inundated the lowlands, causing a damage of about \$500. Creeks and small streams overflowed in numerous localities, flooding lowlands planted to rice and cotton, causing numerous washouts in east Texas and interrupting traffic. The run-off was, however, remarkably small when compared with the total rainfall. Outdoor work was practically at a standstill during the last week.

## MISCELLANEOUS PHENOMENA.

*Twin meteors.*—On September 4 at about 7.08 p. m. "twin meteors" of great brilliancy were observed at Houston and many other places within a radius of about 200 miles. They seemed of equal size and brilliancy, with diameter about that of a good-sized grapefruit and tails over  $20^{\circ}$  in length. They came from the southeast and moved to the northwest, traveling along parallel

lines at an altitude of about  $45^{\circ}$ . One meteor was about  $5^{\circ}$  lower than the other and the same distance ahead. They were visible for several seconds, the estimates varying from 5 to 10 seconds and more. The movement was unusually slow and afforded a good opportunity for viewing the rare phenomenon. Several observers reported that originally only one large ball of fire appeared in the southeast and that it soon exploded and formed two balls.

TABLE 1.—*Climatological data for September, 1913. District No. 8, Texas and Rio Grande Valley.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<b>Colorado.</b>																					
Blanca.	Costilla.	7,885	4	51.2	.....	76	6	23	20†	47	0.92	0.55	0	4	24	3	3	w.	Lewis F. Botens.		
Cumbres.	Conejos.	10,015	6	.....	-2.0	79	20	21	27	54	1.14	+ 0.30	0.35	1.04	10.5	9	13	2	sw.	Mrs. Ida M. Lively.	
Garnett.	Costilla.	7,576	20	52.0	-2.0	79	20	21	27	54	1.14	3.14	1.39	4.5	0	6	10	12	se.	Charles Speiser.	
Hermit.	Hinsdale.	9,843	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Marion Mason.	
La Veta Pass.	Costilla.	9,000	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Clara M. Wright.	
Manassa.	Conejos.	7,700	7	53.1	.....	80	3†	23	20	53	1.03	0.90	0.42	8.0	5	23	7	w.	J. B. Chapman.		
Platoro.	do.	7,675	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Walter R. Hook.	
Saguache.	Saguache.	7,740	21	53.0	-3.1	83	7†	22	27	51	1.00	+ 0.33	0.50	T.	4	11	2	17	w.	Eugene Williams.	
San Luis.	Costilla.	7,794	22	51.3	-4.2	78	5	17	24	46	1.00	-0.13	0.67	2.0	5	10	14	10	sw.	P. B. Albright.	
Wagon Wheel Gap Experiment Station.	Mineral.	9,610	14	45.2	-3.1	68	4	17	24	38	2.36	+ 1.04	1.05	6.0	15	7	10	13	.....	U. S. Weather Bureau.	
<b>New Mexico.</b>																					
Agricultural College.	Dona Ana.	3,883	52	66.2	-6.8	95	19	37	28	49	1.70	+ 0.34	0.43	0	9	13	10	7	se.	N. Mex. Agrl. College.	
Alamogordo (near).	Otero.	4,338	16	66.8	-4.9	93	2	41	26	42	2.05	+ 0.74	0.65	0	5	13	5	12	s.	Edward Le Breton.	
Alamogordo.	do.	4,320	4	65.6	.....	87	1†	40	28	34	1.84	.....	0.43	0	7	22	0	8	sw.	Agent E. P. & S. W. R. R.	
Alamos Ranch.	Sandoval.	7,800	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. H. Brook.	
Albuquerque.	Bernalillo.	4,960	37	.....	.....	.....	.....	.....	.....	.....	0.55	-0.27	0.25	0	6	21	7	2	e.	Pitt Ross.	
Ancho.	Lincoln.	6,112	4	.....	.....	.....	.....	.....	.....	.....	1.67	0.80	0	7	0	15	5	12	se.	Agent E. P. & S. W. R. R.	
Anchor Mine.	Taos.	10,600	2	.....	.....	.....	.....	.....	.....	.....	4.29	.....	0.94	21.0	13	3	11	16	w.	Will Benson.	
Artesia.	Eddy.	3,350	5	67.3	.....	100	19	37	28	54	3.58	2.29	0	5	21	3	6	se.	Junius D. Maupin.		
Aspen Grove Ranch.	Rio Arriba.	9,000	4	.....	.....	.....	.....	.....	.....	.....	2.10	0.69	11.8	8	6	24	0	0	sw.	John W. Bateman.	
Batemans Ranch.	do.	8,900	4	.....	.....	.....	.....	.....	.....	.....	2.90	1.12	13.7	9	14	12	4	w.	J. C. Rishaberg.		
Berino.	Dona Ana.	3,788	2	.....	.....	.....	.....	.....	.....	.....	1.54	0.60	0	9	9	20	4	6	sw.	Bluewater Development Co.	
Bluewater.	Valencia.	6,732	11	56.3	-3.0	85	19†	28	21†	59	1.05	-0.23	0.35	T.	4	13	16	1	sw.	Bluewater.	
Boaz.	Chaves.	5,154	4	66.0	.....	98	2	40	25†	46	5.22	3.82	0	8	13	13	4	ne.	William Horner.		
Capitan.	Lincoln.	6,345	4	.....	.....	.....	.....	.....	.....	.....	3.32	1.40	0.5	5	12	13	13	nw.	Agent E. P. & S. W. R. R.		
Carlsbad.	Eddy.	3,120	18	69.4	-4.4	98	19	38	28	48	3.93	+ 2.42	1.60	0	10	14	9	7	se.	U. S. Reclamation Service.	
Carizozo.	Lincoln.	5,438	5	62.4	.....	89	20	37	29	37	1.16	.....	0.47	0	4	20	6	4	e.	Agent E. P. & S. W. R. R.	
Cerrillos (near).	Santa Fe.	5,700	1	61.6	.....	89	3	30	20†	50	0.91	0.21	0	9	10	15	5	se.	Irving C. Sweet.		
Chama.	Rio Arriba.	7,851	15	53.2	-3.7	82	2	27	28	46	2.65	+ 0.74	0.70	5.0	9	18	12	0	sw.	Frank C. Johnson.	
Cloudcroft.	Otero.	8,650	11	49.6	-3.2	64	1†	28	26	24	3.83	+ 0.79	0.85	4.0	10	13	3	14	nw.	Agent E. P. & S. W. R. R.	
Corona.	Lincoln.	6,666	4	59.0	.....	84	19	31	26	45	2.14	0.70	0.60	8.0	6	16	12	2	sw.	Do.	
Coyote.	do.	5,800	4	.....	.....	.....	.....	.....	.....	.....	1.54	0.60	0	9	9	20	4	6	sw.	Do.	
Cundiyo.	Santa Fe.	6,880	4	.....	.....	.....	.....	.....	.....	.....	1.16	0.40	0	8	11	10	9	w.	Juan Vilij.		
Demonstration Farm.	San Miguel.	6,800	4	.....	.....	.....	.....	.....	.....	.....	2.16	0.72	5.00	8	15	10	5	sw.	C. C. Clayton.		
Duran.	Torrance.	6,272	4	60.0	.....	85	19	32	26†	44	1.74	1.10	8.0	9	9	12	12	6	se.	Agent E. P. & S. W. R. R.	
Elida.	Roosevelt.	4,345	1	.....	.....	.....	.....	.....	.....	.....	1.40	1.43	0	4	24	0	6	se.	A. J. Evans.		
Escondido.	Otero.	4,014	4	.....	.....	.....	.....	.....	.....	.....	1.92	0.43	0	5	22	5	3	s.	Agent E. P. & S. W. R. R.		
Espanola.	Rio Arriba.	5,590	15	61.2	-2.8	91	20	34	28†	47	1.64	+ 0.43	0.64	0	5	22	5	3	sw.	Mrs. Ella F. McBride.	
Fort Stanton.	do.	3,960	15	61.2	-2.8	91	20	34	28†	47	1.64	+ 0.43	0.64	T.	9	12	12	6	nw.	Estancia Drug Co.	
Fort Sumner.	Lincoln.	6,231	36	58.0	-3.3	87	19	30	29	49	3.57	+ 1.56	0.84	1.40	0	3	10	3	sw.	U. S. Sanitarium.	
Harvey's Upper Ranch.	Lincoln.	3,960	5	64.7	.....	98	19	36	28	58	1.73	+ 0.33	0.84	1.00	0	8	17	10	se.	Peter Yockey.	
Hobbs.	Eddy.	3,800	4	66.8	.....	92	1†	40	28	42	2.98	0.82	0	10	15	4	11	ne.	Agent E. P. & S. W. R. R.		
Hondo Reservoir.	Chaves.	3,904	4	66.6	.....	98	19	38	28	50	2.60	0.65	0	9	17	9	4	se.	U. S. Reclamation Service.		
Jemez Springs.	Sandoval.	6,100	3	57.8	.....	82	19	32	28	41	1.85	0.65	0	8	16	6	8	sw.	Mrs. Linus L. Shields.		
Knowles (near).	Eddy.	4,300	3	66.2	.....	98	19	41	26†	39	6.22	0.90	1.00	0	8	14	11	5	ne.	J. W. Mosley.	
Laguna.	Valencia.	5,840	8	64.2	.....	91	3	35	26†	45	2.15	+ 0.48	1.25	1.27	T.	3	15	12	3	sw.	Gus Weiss.
Legunita.	Guadalupe.	4,500	8	59.0†	.....	90†	2	34	25	43†	1.38	0.83	0	4	15	15	1	se.	P. A. Turnbull.		
Lake Valley.	Sierra.	5,412	8	.....	.....	98	19	38	27	50	3.95	0.61	-0.73	0.31	0	9	14	15	1	sw.	William P. Kell.
Lakewood (near).	Eddy.	3,170	1	67.8	.....	98	19	38	27	50	3.95	0.61	-0.73	0.31	0	5	15	1	4	se.	Mrs. J. K. Boyd.
Lanark.	Dona Ana.	4,156	14	.....	.....	98	19	38	27	50	3.95	0.61	-0.73	0.31	0	4	18	9	3	w.	Agent So. Pac. R. R.
Las Vegas.	San Miguel.	6,385	26	56.8	-3.7	85	19	31	27	48	3.09	+ 0.84	1.02	8.00	8	15	15	15	sw.	N. Mex. Normal Univ.	
Los Lunas (near).	Valencia.	4,900	24	64.4	-1.7	95	9	32	26	50	1.03	-0.26	0.45	2.46	0	7	13	16	1	w.	Richard Pohl.
Magdalena.	Socorro.	6,556	8	59.5	.....	88	19	33	26	35	3.15	+ 1.71	1.15	0.65	0	6	13	14	10	sw.	William Pender.
Mescalero.	Otero.	6,627	2	56.1	.....	88	19	23	26	42	1.55	0.33	0.33	0.85	0	10	14	6	10	sw.	Rev. R. H. Harper.
Mineral Hill.	San Miguel.	7,050	8	.....	.....	92	19	35	26	42	2.09	0.78	0.35	0.60	6.00	13	12	8	sw.	W. M. Nelson.	
Monterey.	Otero.	4,438	4	.....	.....	95	1	42	25	42	1.24	0.00	0.35	0.35	0	9	18	6	6	sw.	Agent E. P. & S. W. R. R.
Moriarty.	Torrance.	6,390	11	59.0	-3.1	88	15	28	27	47	1.86	0.65	0.20	0	6	25	5	1	e.	Harry J. Flincke.	
Mountainair (near).	do.	6,390	11	59.0	-3.1	88	15	28	27	47	1.86	0.57	0.50	0	7	15	7	7	sw.	Miss Julia Hill.	
Mountain Park.	Otero.	7,100	1	.....	.....	98	19	32	26	50	1.03	-0.26	0.45	2.46	0	12	15	5	10	w.	Charles E. Beasley.
Newman.	do.	3,989	4	.....	.....	88	19	33	26	50	1.03	-0.26	0.45	0.54	0	12	14	11	15	sw.	Agent E. P. & S. W. R. R.
Nogal (near).	Lincoln.	8,000	4	.....	.....	88	19	33	26	50	1.03	-0.26	0.45	0.54	0	19	20	8	11	w.	H. E. Kellar.
Orogrande.	Otero.	4,114	4	.....	.....	98	19	35	26†	47	1.71	-0.26	0.45	0.54	0	4	26	5	5	sw.	Agent E. P. & S. W. R. R.
Oscuro.	Lincoln.	5,016	4	.....	.....	98	19	35	26†	47	1.71	-0.26	0.45	0.54	0	4	11	14	5	se.	Do.
Pastura.	Eddy.	3,100	4	.....	.....	98	19	35	26†	47	1.71	-0.26	0.45	2.78	0	8	17	10	3	se	

TABLE 1.—Climatological data for September, 1913. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of 0.01 inch or more days.									
<b>New Mexico—Contd.</b>																								
Torrance.	Torrance.	6,433	4								2.41		1.38	4.0	5	sw.	Agent E. P. & S. W. R. R.							
Tres Piedras.	Taos.	8,075	10	52.0	81	19	25	27	47	1.29	+ 0.17	0.75	10.0	4	9	6	15	sw.	U. S. Forest Service.					
Truchas.	Rio Arriba.	7,935	4	52.2	75	20	29	25	36	2.82		1.50		13	15	10	5	sw.	Miss T. Esquival.					
Tulrosa.	Otero.	4,436	3																I. L. Fairless, agent.					
Vaughn.	Guadalupe.	5,952	4		84	5	33	25		2.37		1.47	10.0	3	14	9	7	sw.	Agent E. P. & S. W. R. R.					
Virsylvia.	Taos.	7,500	3	53.1	75	57	27	26	32	1.80		0.59	2.0	13	10	5	sw.	Dr. I. N. Woodman.						
Willard.	Torrance.	6,086	1	59.2	88	10	30	12	52	1.56		0.65	1.5	9	18	1	11	sw.	Dr. Volney S. Cheyney.					
Winsors.	San Miguel.	8,200	17	48.9	— 2.5	72	14†	23	27	42	1.99	+ 0.04	0.82	— 5.0	14	11	17	2	se.	James F. Matty.				
<b>Texas.</b>																								
Abilene.	Taylor.	1,738	28	72.7	— 1.5	99	19	47	21	38	4.42	+ 1.28	2.90	0	9	14	7	9	s.	U. S. Weather Bureau.				
Albany.	Shackelford.	1,429	19	71.2	— 4.3	101	3†	42	21	42	4.56	+ 1.87	1.87	0	7	18	3	9	se.	N. L. Bartholomew.				
Alice.	Jim Wells.	209	2	78.7		102	6	49	21	34	8.07		2.90	0	9	13	8	9	se.	R. M. Boerum.				
Alpine.	Brewster.	4,483	3																H. B. Cowles.					
Alvin.	Brazoria.	49	15	74.2		96	4	49	22	33	3.67	— 1.09	1.01	0	8	2	10	18	e.	Alvin Japanese Nursery.				
Anahua.	Chambers.	23	4																Lone Star Canal Co.					
Angleton.	Brazoria.			75.5		96	6	49	21	31	10.71		3.21	0	13	6	6	18	n.	N. C. Winters.				
Antelope.	Jack.																		Paul Rudolph.					
Aspermont.	Stonewall.			52															Bryant Link Co.					
Austin.	Travis.	593	57	72.7	— 5.4	96	6	50	22	30	5.68	+ 1.94	1.78	0	10	10	5	15	se.	A. Deussen.				
Ballinger.	Runnels.	1,637	17	73.8	— 1.9	101	5	43	21	43	3.70	+ 0.46	1.55	0	7	18	4	8	s.	E. M. Eubank.				
Barstow.	Ward.	2,573	6	72.0		98	19†	40	28	44	4.70		1.60	0	6	11	8	10	se.	F. P. Ingerson.				
Bay City.	Matahorda.	53	3	74.9		92	6	58	21	31	11.82		2.57	0	14	7	6	17	n.	E. C. Quereau.				
Beaumont.	Jefferson.	29	12	77.9	— 2.8	99	3	54	20	27	16.33	+ 13.40	6.03	0	15	11	1	18	n.	John Bender.				
Beeville.	Bee.	225	17	74.8	— 6.1	102	6†	46	21	39	13.06	+ 10.28	5.25	0	14	10	0	20	n.	Geo. E. Faupel.				
Big Spring.	Howard.	2,396	15	72.6	— 4.3	102	19	42	28	46	2.72	+ 0.25	1.02	0	6	7	16	7	s.	B. Reagan.				
Blanco.	Blanco.	1,350	17	75.2	— 1.5	100	5†	49	21	36	7.62	+ 4.49	3.90	0	11	9	16	5	e.	R. C. Crist.				
Boerne.	Kendall.	1,412	21	72.0	— 4.0	99	6†	39	20	41	5.84	+ 2.70	2.18	0	11	9	16	5	se.	F. W. Schweppe.				
Booth.	Fort Bend.	81	12																T. R. Booth.					
Bowie.	Montague.	1,113	18	74.4	— 3.7	106	4†	46	21	33	4.71	+ 1.79	1.47	0	12	14	3	13	n.	Craig Anderson.				
Brazoria.	Brazoria.	25	24	77.0	— 0.9	99	6	51	22	32	8.69	+ 3.13	1.95	0	18	15	5	10	n.	Mrs. M. A. Stevens.				
Brazos.	Palo Pinto.	801	4																Robt. E. Boyett.					
Brenham.	Washington.	350	28	75.7	— 3.3	100	6	54	21	31	4.00	+ 0.80	1.73	0	8	9	9	17	s.	Mrs. B. F. Sloan.				
Bridgeport.	Wise.	754	4																G. H. Ritter.					
Brighton.	Nueces.	12	20	79.8	— 0.8	98	1†	52	22	33	13.57	+ 10.55	4.42	0	11	19	1	10	s.	U. S. Weather Bureau.				
Brownsville.	Cameron.	38	49	79.2	— 1.1	98	1†	58	22	30	14.38	+ 8.76	6.58	0	18	12	4	14	se.	Mrs. Pearl Smith.				
Brownwood.	Brown.	1,342	21	73.3	— 3.5	103	5	44	21	43	4.72	+ 0.14	2.30	0	12	9	8	13	n.	Jno. Daly, Jr.				
Bryan.	Brazos.			75.8		103	4†	50	20	33	5.91		2.20	0	5	10	15	5	ne.	W. H. Denis.				
Buena Vista.	Pecos.																		J. E. Wattis.					
Cameron.	Milan.	5	55.4		106	4†	48	20	35	3.68		1.47	0	11	20	0	10		M. S. Spitzer.					
Carmona.	Polk.	330	5	74.2		160	5	44	21	35	9.33		3.60	0	17	8	11	20	se.	M. E. Cook.				
Carrizo Springs.	Dimmit.	1	80.2		99	1†	60	22†	32	4.20		2.60	0	5	10	0	20		Wm. Lenius.					
Claytonville.	Fisher.	2,100	18	74.4	— 1.4	101	19	44	28	46	3.28	+ 0.73	2.05	0	6	19	1	10	sw.	W. S. Ownsby.				
Cleburne.	Johnson.	758	8	73.9		106	6	44	21†	43	4.63	— 1.72	3.22	0	11	12	4	14	se.	R. M. Jones.				
Clifton.	Bosque.	671	2																J. E. Stevens.					
Coleman.	Coleman.	1,710	19	75.8	+ 1.2	104	7	49	28	46	2.11	— 1.50	1.19	0	5	10	15	5	ne.	H. A. Clapp.				
Collegeport.	Matahorda.																		Prof. G. S. Fraps.					
College Station.	Brazos.	308	23	77.0	— 2.0	104	6	51	21	33	3.15	— 0.17	0.74	0	13	8	4	18	s.	R. M. Webb.				
Colorado.	Mitchell.	2,066	19	72.1	— 3.0	102	19	44	21†	44	4.00	+ 1.63	1.44	0	7	7	4	19	n.	Mrs. Sophie Bridge.				
Columbus.	Colorado.	206	9																W. T. Nabers.					
Comanche.	Comanche.	1,358	7	75.2		103	5†	48	21	36	1.04		0.40	0	4	11	2	18	10	e.	U. S. Weather Bureau.			
Corpus Christi.	Nueces.	20	26	77.5	— 1.5	92	6	59	22	31	9.17	+ 5.17	4.24	0	10	12	2	15	s.	D. H. Winn.				
Corsicana.	Navarro.	445	28	72.8	— 4.5	102	5	52	21	34	5.98	+ 3.19	2.45	0	12	13	2	15	se.	Holland Agricultural Co.				
Cotulla.	La Salle.	425	6																A. M. Rancher.					
Crockett.	Houston.	350	9	75.0		104	5	49	21	35	8.56		3.36	0	14	11	6	13	s.	A. R. Frobese.				
Dallas.	De Witt.	177	23	76.8	— 2.9	100	7	49	22	36	9.94	+ 5.90	5.67	0	12	8	0	22	s.	G. A. Eisenlohr.				
Danevang.	Dallas.	466	24	73.6	— 3.8	107	5	48	22	39	7.16	+ 4.34	2.15	0	6	10	8	13	se.	H. P. Hermansen.				
Del Rio.	Wharton.	145	17	77.2	— 1.9	100	5†	51	23	34	9.70	+ 5.85	2.95	0	9	12	12	6	se.	U. S. Weather Bureau.				
Devon.	Val Verde.	952	7	76.8	— 2.3	100	7	50	21	36	1.59	— 1.35	0.61	0	12	14	2	14	s.	T. W. Buell.				
Denton.	Denton.	621	74	74.4		106	5†	43	21	38	4.58	+ 0.53	1.56	0	12	14	3	14	se.	M. A. Keller.				
Devine.	Medina.	655	3	77.8		106	1	50	22†	41	3.57		1.80	0	6	15	3	7	s.	J. M. B. McKnight.				
Dilliev.	Cherokee.	575	10	73.9	— 5.0	102	5	49	21	31	11.76	+ 9.60	3.15	0	17	10	7	13	s.	John W. Miller.				
Dublin.	Frio.	569	3																Jno. O. Shafer.					
Duval.	Erath.	1,466	17	72.6	— 4.0	104	5†	42	21	41	1.68	— 0.84	0.51	0	8	11	9	10	s.	J. C. Edgar.				
Eagle Pass.	Travis.	820	24	74.8	— 4.9	99	5	53	22	39														

TABLE 1.—*Climatological data for September, 1913. District No. 8—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.							
<b>Texas—Continued.</b>																					
Grapevine.	Tarrant.	670	23	73.7	-4.6	105	5	49	21	35	8.08	+5.63	2.60	0	8	80	6 <sup>a</sup>	14 <sup>b</sup>	s.	W. J. Crowley.	
Greenville.	Hunt.	550	13	73.2	-5.6	106	5	50	21	33	8.15	+4.74	2.60	0	9	10	0	20	s.	Mrs. L. A. Regan.	
Hallettsville.	Lavaca.	225	21	76.2	-3.5	97	6†	52	22	29	8.40	+5.81	1.90	0	10	12	7	11	n.	Dr. J. E. Lay.	
Hamlin.	Jones.	1,685	2	80.6	.....	102	6	56	22	33	8.43	.....	0.75	0	4	11	14	5	se.	W. S. Carruthers.	
Harsilingen.	Cameron.	37	2	.....	.....	101	6†	49	26	39	8.46	.....	4.63	0	14	11	14	5	se.	Lindsay Waters.	
Harper.	Gillespie.	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.46	.....	2.50	0	13	9	10	11	.....	D. C. Barker.	
Haskell.	Haskell.	1,553	18	73.4	-4.2	101	6†	49	26	39	8.08	+0.81	0.98	0	6	12	11	7	s.	P. D. Sanders.	
Hayflat.	Winkler.	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.70	.....	0.80	0	4	9	9	9	.....	M. M. Leeman.	
Hebronville.	Daval.	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.41	.....	9.00	0	5	5	1	24	ne.	Henry Edds.	
Hempstead.	Waller.	254	9	.....	.....	.....	.....	.....	.....	.....	7.16	.....	2.70	0	4	10	0	16	se.	J. H. Hancock.	
Henderson.	Rusk.	500	13	.....	.....	.....	.....	.....	.....	.....	11.89	.....	3.06	0	13	9	6	15	se.	M. Kangera.	
Hico.	McLennan.	664	13	.....	.....	.....	.....	.....	.....	.....	8.40	+5.95	6.10	0	8	4	17	0	13	.....	I. H. Earle.
Hillsboro.	Hamilton.	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.16	.....	1.57	0	5	12	4	14	s.	John A. Eakins.	
Hondo.	Hill.	628	10	73.6	.....	105	5†	49	20	35	13.28	+10.78	3.50	0	11	12	5	12	.....	Thompson & Campbell.	
Houston.	Medina.	901	14	75.5	-5.0	99	7	47	23	40	2.61	-0.76	0.75	0	7	19	6	5	se.	H. E. Haass.	
Huntsville.	Harris.	138	23	76.0	-2.9	97	6	54	21	25	13.37	+9.14	4.55	0	17	10	0	20	se.	U. S. Weather Bureau.	
Jayton.	Walker.	400	29	73.8	-3.8	97	5	42	21	33	7.16	+4.27	2.12	0	9	10	0	15	se.	W. Y. Barr.	
Jewett.	Kent.	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.20	.....	1.08	0	4	17	0	13	.....	Wichita Valley R. R. Co.	
Junction.	Leon.	496	9	74.2	.....	107	5	51	23	40	7.08	.....	2.75	0	9	10	6	14	n.	Earle Adkison.	
Kaufman.	Kimble.	1,645	12	74.4	-4.6	105	5	48	21	32	6.82	+3.82	1.69	0	11	12	5	12	s.	Judge John S. Durst.	
Kerrville.	Kaufman.	448	14	74.4	.....	105	5	48	21	32	6.82	+3.82	0.65	0	10	9	15	6	se.	B. J. Hubbard.	
Knickerbocker.	Kerr.	1,650	17	72.9	-2.7	97	7	40	22	42	2.03	-0.82	0.36	0	5	18	9	3	se.	Robert E. Horne.	
Kopperl.	Tom Green.	2,050	9	74.2	.....	98	7†	41	21	48	0.73	.....	5.46	+2.67	0	9	5	7	se.	Jos. Tweedy.	
Lagrange.	Bosque.	576	16	.....	.....	.....	.....	.....	.....	.....	6.28	.....	2.48	0	13	1	16	se.	T. A. Johnson.		
Lamesa.	Fayette.	276	3	.....	.....	.....	.....	.....	.....	.....	4.80	.....	1.50	0	8	10	0	20	se.	August Hermes.	
Lampasas.	Dawson.	2,500	3	.....	.....	.....	.....	.....	.....	.....	6.55	+4.00	3.52	0	10	9	5	13	.....	S. D. Austin.	
La Parra.	Willyacy.	1,026	21	70.2	-6.6	98	5	45	22	38	6.08	+2.47	1.60	0	9	12	5	13	.....	Mrs. K. I. Webber.	
Laredo.	Webb.	421	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Mrs. A. H. Jackson.	
Laureles Ranch.	Nueces.	20	13	75.5	.....	97	4	47	22	36	8.49	.....	3.30	0	14	11	5	14	e.	Matt Cody.	
Liberty.	Liberty.	38	9	75.5	.....	97	4	47	22	36	8.49	.....	0.40	0	8	9	12	9	se.	Mrs. Fannie Snead.	
Llano.	Llano.	1,040	22	74.4	-4.6	97	2	47	21	34	1.07	-0.91	1.43	0	7	5	24	1	se.	E. W. Torrence.	
Llano Grande.	Hidalgo.	86	5	77.7	.....	100	5†	52	21†	38	4.39	.....	3.00	0	11	16	0	14	se.	M. D. Wardlow.	
Long Lake.	Anderson.	229	8	.....	.....	.....	.....	.....	.....	.....	7.80	+9.07	3.18	0	11	16	6	15	se.	Geo. W. Ellis.	
Longview.	Gregg.	336	27	73.8	-3.9	102	5	50	22	32	11.98	+9.07	4.20	0	11	16	0	14	se.	C. A. Propst.	
Lubbock.	Lubbock.	.....	.....	68.6	.....	95	7	48	23	37	4.19	.....	1.32	0	11	16	6	15	se.	V. L. Cory.	
Lufkin.	Angelina.	325	6	74.1	.....	98	1†	45	21	37	12.00	.....	2.51	0	8	2	2	20	s.	T. A. King.	
Luling.	Caldwell.	418	24	75.8	-3.4	98	7	50	21	31	6.57	+3.65	2.20	0	14	12	4	14	n.	John Carter.	
Lyford.	Cameron.	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.90	.....	0	7	20	3	7	se.	B. D. Stevenson.		
McGregor.	McLennan.	713	3	.....	.....	.....	.....	.....	.....	.....	6.83	+2.58	2.45	0	12	11	5	15	s.	W. H. Whitley.	
McKinney.	Collin.	612	11	72.6	.....	107	6	44	21	46	6.54	+1.53	1.27	0	9	11	9	10	se.	H. Killingsworth.	
Marathon.	Brewster.	4,043	3	62.6	.....	87	19	37	26	37	4.30	.....	4.00	0	6	15	0	15	se.	Rev. A. F. Willis.	
Marble Falls.	Burnet.	771	5	.....	.....	.....	.....	.....	.....	.....	3.48	.....	1.10	0	8	15	0	15	se.	B. E. Cochran.	
Marfa.	Presidio.	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.20	.....	0	8	15	0	15	se.	W. L. Jones.		
Marshall.	Harrison.	375	12	73.6	.....	104	5	46	21	37	13.63	+11.22	3.73	0	14	2	15	13	se.	Lee Scott.	
Matagorda.	Matagorda.	12	3	.....	.....	.....	.....	.....	.....	.....	17.52	.....	5.96	0	9	8	5	7	se.	W. E. McNabb.	
Mexia.	Limestone.	537	9	74.2	.....	106	5	52	21†	37	4.87	.....	2.73	0	9	8	7	15	se.	Ildore Newman.	
Midland.	Midland.	10	10	69.4	.....	97	19	41	28	45	4.68	+2.69	1.10	0	6	16	9	17	se.	A. G. Graham.	
Mission.	Hidalgo.	140	3	.....	.....	.....	.....	.....	.....	.....	9.75	.....	1.95	0	17	11	4	15	se.	Roy Conway.	
Mont Belvieu.	Chambers.	65	3	.....	.....	.....	.....	.....	.....	.....	2.30	.....	0.66	0	9	13	8	13	se.	A. R. Shearer.	
Montell.	Uvalde.	1	1	.....	.....	.....	.....	.....	.....	.....	3.66	.....	2.06	0	15	6	0	24	se.	A. G. Beecroft.	
Mount Blanco.	Crosby.	2,750	24	68.6	-3.4	95	7†	39	28	46	3.66	+1.53	1.77	0	4	16	4	10	se.	Geo. W. Smith.	
Nacogdoches.	Nacogdoches.	271	14	72.9	-3.4	102	5	47	21†	33	11.87	+8.51	2.11	0	14	9	8	14	se.	Miss Mary Hofmann.	
New Braunfels.	Comal.	720	24	74.2	-3.6	96	6	50	22	31	4.66	+1.86	1.00	0	11	13	7	10	se.	J. Giesecke.	
Palestine.	Anderson.	510	31	73.2	-1.5	101	5	50	21	31	6.64	+3.44	3.17	0	9	10	3	10	se.	U. S. Weather Bureau.	
Panter.	Frio.	1,000	24	.....	.....	.....	.....	.....	.....	.....	3.65	.....	1.57	0	8	9	13	13	se.	E. H. Snyder.	
Pearl.	Frio.	629	3	.....	.....	.....	.....	.....	.....	.....	3.50	.....	0	8	15	0	15	se.	Earnest De Vibiss.		
Pierce.	Wharton.	102	7	77.8	-7.2	95	6	52	21	30	7.87	.....	2.06	0	15	6	0	24	se.	R. P. Pointer.	
Plainview.	Hale.	3,370	17	63.8	-7.2	95	7	39	14	42	3.33	+1.05	1.50	0	10	11	9	10	se.	J. F. Sander.	
Port Arthur.	Jefferson.	.....	.....	.....	.....	.....	.....	.....	.....	.....	22.59	.....	8.50	0	11	12	6	14	se.	Griffing Brothers.	
Port Lavaca.	Calhoun.	20	12	76.5	-3.8	100	5	53	21	28	16.51	+12.43	3.53	0	12	10	6	14	se.	J. H. Hickford.	
Post.	Garza.	2,700	3	.....	.....	.....	.....	.....	.....	.....	3.48	.....	1.30	0	7	13	5	12	se.	W. T. Mann.	
Putnam.	Callahan.	1,591	2	.....	.....	.....	.....	.....	.....	.....	4.65	.....	1.90	0	5	21	9	13	se.	S. M. Davis.	
Raymondville.	Cameron.	.....	.....	79.0	.....	100	7	51	22	36	5.38	.....	1.38	0	13	9	12	9	se.	C. H. Pease.	
Ricardo.	Nueces.	57	4	77.6	.....	100	6†	49	21†	38	7.03	.....	2.40	0	10	7	8	15	se.	J. S. Lehman.	
Rio Grande City.	Star.	36	1	.....	.....	.....	.....	.....	.....	.....	7.88	.....	2.65	0	11	10	2	18	se.	D. N. Garza.	
Riverside.	Walker.	169	9	.....	.....	.....	.....	.....	.....	.....	16.90	.....	5.50	0	11	11	8	13	se.	Mrs. C. W. H	

TABLE 1.—*Climatological data for September, 1913. District No. 8—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.	
<b>Texas—Continued.</b>																		
Tivoli.	Refugio.	3								19.01		6.07	0	13				W. H. Gisler.
Troup.	Smith.	467	73.4	103	5	46	21	31	10.19		5.30	0	15	10	6	14	se.	W. S. Hotchkiss.
Uvalde.	Uvalde.	937	77.6	102	6	45	21†	35	4.80	+ 2.40	3.00	0	5	17	10	3	se.	J. C. McBride.
Valley Junction.	Robertson.	289	13							4.40	+ 1.50	1.00	0	8	16	0	14	Frank Fitzpatrick.
Victoria.	Victoria.	187	75.84	— 4.5	101	7	53	22	32‡	16.48	+ 13.42	7.40	0	6	14	0	n.	C. C. Zirjacks.
Waco.	McLennan.	424	74.4	— 4.4	101	6	51	21	31	11.17	+ 8.58	4.80	0	6	12	3	15	A. E. Howell.
Waxahachie.	Ellis.	556	73.1	— 4.6	106	5	45	21	38	5.64	+ 2.64	2.13	0	14	9	10	11	E. Q. Vestal.
Weatherford.	Parker.	864	72.4	— 4.0	102	6	48	21	34	3.29	+ 0.85	1.04	0	11	15	0	15	Miss J. Stickfort.
Wills Point.	Van Zandt.	524	72.7	— 106	5	47	21	39	6.14		1.48	0	8	11*	4*	14*	s.	W. W. Gibbard.
Winters.	Runnels.	2								6.12		2.92	0	5				Ed. P. Eason.

\*, †, ‡, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for September, 1913. District No. 8, Texas and Rio Grande Valley.*

TABLE 2.—*Daily precipitation for September, 1913. District No. 8—Continued.*

Stations.	Watershed.	Day of month.																													Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
<i>New Mexico—Contd.</i>																																	
Tres Piedras	Rio Grande	.04																															1.29
Truchas	do		.21	.02	.19	.08		.01		.02																					2.82		
Tularosa	do																																
Vaughn	Pecos																															2.37	
Virsylva	Rio Grande	.07																														1.80	
Willard	do	.08		.02	.09	T.	.03	.14		.10																					1.56		
Winsors	Pecos																															1.99	
<i>Texas.</i>																																	
Abilene	Brazos	.02				T.	T.			.02	.01	.07	.22																		4.42		
Albany	do																															4.56	
Alice	Coast	.30	.70																													3.07	
Alpine	Coast																															3.35	
Alvin	do	.62	1.33																													3.67	
Anahuaac	T.																															18.48	
Angleton	Trinity																															10.71	
Antelope	Brazos	.27																														3.56	
Aspermont	Colorado	.02	.11																													2.90	
Austin	do		.10																													3.70	
Ballinger	T.																																
Barstow	Pecos																																
Bay City	Colorado	.10	.15																													11.82	
Beaumont	Neches																															16.33	
Beeville	Coast	T.	.02	.10	T.																											13.06	
Big Spring	Colorado	1.02	T.	T.																												2.72	
Blanco	Guadalupe																																
Boerne	San Antonio	.28		.20																												5.64	
Booth	Brazos			.15																												7.47	
Bowie	Trinity																															4.71	
Brazoria	Brazos	.14	.02																													8.69	
Brazos	do																															4.43	
Brenham	T.																															4.00	
Bridgeport	Trinity																															3.90	
Brighton	Coast			.25																												13.57	
Brownsville	Rio Grande	.10	.02																													14.38	
Brownwood	Colorado																															2.92	
Bryan	Brazos	.43																														5.91	
Buena Vista	Neches	.04	T.	.80																												4.85	
Cameron	Brazos	.07	.05																													3.08	
Carmona	Neches	.15	.13																													9.33	
Carrizo Springs	Nueces	T.	.50																													4.20	
Claytonville	Brazos	T.	.13																													3.28	
Cleburne	do		.81																													6.72	
Clifton																																8.10	
Coleman	Colorado																															2.11	
Collegeport	Coast																																
College Station	Brazos	.04	.02	T.																												3.15	
Colorado	Colorado	.04	.40																													4.00	
Columbus	do	.18	T.																													11.55	
Comanche	Brazos	T.																														4.04	
Corpus Christi	Coast	.02	.03	.07																												9.17	
Corsicanas	Nueces																															5.98	
Cotulla																																6.80	
Crockett	Trinity	.09		.25	T.																											8.56	
Cuero	Guadalupe	.16	.02																													9.94	
Dallas	Trinity																															7.16	
Danevang	Coast																															7.07	
Del Rio	Rio Grande	.14																														1.59	
Denton	Trinity																															4.58	
Devine	Nueces	.12																														3.57	
Dhalville	Neches	.24	.23	T.	.31																										11.76		
Dilley	Nueces																															2.60	
Dublin	Brazos	T.																														1.68	
Duval	Colorado	T.	T.	T.																												5.58	
Eagle Pass	Rio Grande	T.	.10	T.																												1.70	
Eastland	Brazos	.57	.01																													2.70	
Edna	Lavaca																															10.68	
El Paso	Rio Grande	T.	.01	.37	T.																											0.60	
Encinal	Nueces	T.	T.																														

TABLE 2.—*Daily precipitation for September, 1913. District No. 8—Continued.*

- Precipitation included in that of the next measurement.

<sup>†</sup> Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.  
Precipitation is less than 0.01 inch rain or melted snow.

T Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for September, 1913. District No. 8, Texas and Rio Grande Valley.

Date.	Colorado.				New Mexico.										Texas.						Abilene.		Big Spring.		Brownsville.		Corpus Christi.	
	Garnett.		San Luis.		Agricultural College.		Carlsbad.		Fort Stanton.		Mountain Air.		Rosedale.		Roswell.		Santa Fe.		Santa Ross.		Abilene.		Big Spring.		Brownsville.		Corpus Christi.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	78	41	74	47	90	65	96	61	82	49	84	52	78	52	91	62	73	52	88	57	94	73	99	66	95	76	88	79
2....	78	42	74	41	81	63	97	62	85	50	79	47	78	48	90	62	76	50	91	56	91	74	90	68	93	73	88	78
3....	76	39	75	46	78	56	90	60	82	47	82	42	76	49	83	61	78	58	84	58	93	69	89	69	89	72	87	76
4....	78	43	73	45	76	56	88	53	71	42	68	52	72	50	75	61	68	55	81	60	94	69	90	66	92	71	90	74
5....	76	43	73	38	75	61	89	59	56	40	72	52	70	50	79	59	71	54	84	52	97	68	97	67	83	70	90	73
6....	77	44	77	43	81	56	85	62	63	45	70	54	68	48	82	59	71	50	86	52	98	72	97	67	97	69	92	73
7....	76	45	77	40	83	57	86	59	72	60	74	52	63	48	84	63	70	54	87	54	98	71	98	70	92	76	92	75
8....	74	47	74	41	82	63	89	63	75	49	78	56	70	48	86	63	70	54	83	57	89	69	90	68	91	73	87	75
9....	75	42	71	39	87	62	88	63	74	46	74	50	72	48	83	59	73	53	84	55	87	70	88	68	88	69	88	76
10....	78	39	72	36	88	57	90	61	80	47	78	48	78	50	86	60	79	52	84	58	86	69	92	65	90	72	83	76
11....	73	35	71	38	86	60	89	60	76	48	78	46	71	49	79	58	75	48	81	55	79	68	86	61	92	71	81	74
12....	74	36	71	37	82	56	79	61	72	48	78	45	70	45	74	52	68	46	76	52	71	62	78	64	90	71	88	73
13....	74	33	69	29	77	45	79	48	76	32	72	38	76	43	70	38	77	39	75	55	78	56	82	70	75	69	82	75
14....	73	39	70	33	83	40	88	51	76	37	79	40	76	42	81	46	74	44	87	43	78	53	80	56	87	64	83	65
15....	75	38	71	36	87	41	84	45	78	40	88	54	77	46	77	49	73	50	79	53	74	58	84	49	93	61	82	66
16....	72	41	63	39	88	45	89	45	85	37	80	48	82	48	86	50	73	49	77	50	84	56	85	56	91	65	83	71
17....	70	27	68	27	82	50	83	46	74	42	80	36	72	42	76	52	69	38	76	46	80	58	86	52	89	58	79	70
18....	78	28	74	34	87	49	88	49	80	39	82	46	80	45	85	51	77	46	90	45	86	57	89	52	85	74	84	71
19....	77	29	75	34	95	46	98	50	80	43	85	48	95	51	81	50	95	60	99	60	102	56	91	56	89	71	82	71
20....	79	25	70	24	80	54	95	52	76	38	78	36	72	40	72	50	68	39	77	43	76	56	94	58	94	72	88	72
21....	77	25	75	30	88	41	90	42	80	32	74	43	80	42	86	40	75	45	91	43	85	47	90	48	81	61	77	60
22....	67	42	67	41	87	48	93	46	82	39	66	52	88	50	82	55	60	45	78	62	68	63	92	57	85	56	80	59
23....	45	32	53	36	84	60	89	67	77	57	71	44	64	52	85	68	63	40	81	53	67	62	92	57	79	68	82	73
24....	47	30	51	30	86	57	85	61	77	50	72	48	64	42	73	53	57	38	73	47	86	61	90	56	89	72	81	75
25....	46	25	45	26	69	46	73	47	55	33	48	30	52	35	53	41	47	32	56	33	61	51	80	51	85	67	75	72
26....	50	25	50	34	53	44	49	45	45	32	44	31	48	30	47	41	51	33	48	39	55	48	52	45	80	71	74	66
27....	52	21	51	23	65	46	65	45	65	32	48	28	56	36	60	44	51	36	58	42	61	48	79	65	82	70	86	68
28....	55	29	55	29	77	37	82	38	72	32	70	37	71	32	78	38	64	36	71	42	76	50	78	42	83	68	80	67
29....	67	25	65	28	80	40	85	45	79	30	85	38	76	42	80	43	68	40	81	43	87	55	85	62	87	72	82	73
30....	70	25	68	29	88	45	86	49	77	32	78	38	75	42	82	47	71	47	82	42	85	61	85	52	86	76	82	77
Mns..	69.6	34.5	67.6	35.0	80.8	51.5	85.6	53.3	74.3	41.6	73.7	44.2	71.2	44.2	78.9	52.5	68.8	45.7	79.4	49.7	83.5	61.9	86.5	58.6	88.4	69.9	83.5	71.5

Date.	Texas.																											
	Del Rio.		El Paso.		Fort McIntosh.		Fort Stockton.		Fort Worth.		Galveston.		Halletteville.		Houston.		Lufkin.		Palestine.		Plainview.		San Antonio.		Seymour.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	96	74	90	64	102	74	97	66	92	73	87	82	92	75	90	76	98	70	96	72	91	64	94	74	100	75	92	73
2....	93	73	83	63	100	74	94	67	94	73	85	71	88	74	98	68	94	71	90	68	93	73	100	75	92	70	88	68
3....	95	78	80	63	92	74	90	66	92	71	85	78	92	74	92	73	98	66	91	67	86	61	91	70	100	75	90	68
4....	92	73	82	63	100	74	87	65	97	69	91	77	92	72	95	71	98	66	92	69	90	62	92	72	92	66	92	66
5....	95	68	71	63	99	68	87	61	104	74	88	75	96	74	93	72	101	68	97	71	104	67	98	70	98	67	98	70
6....	99	69	79	62	102	78	85	60	102	77	88	80	97	77	97	72	93	67	97	70	93	60	98	75	103	66	99	67
7....	100	72	83	61	104	69	83	61	86	69	87	76	97	72	99	71	101	67	97	72	95	63	99	70	99	67	98	70
8....	97	72	82	66	93	69	80	63	87	70	84	74	84	71	85	71	90	70	88	67	87	62	90	67	95	70	86	68
9....	95	70	85	66	98	70	85	63	83	70	82	75	89	73	90	71	88	66	87	61	94	64	87	66	94	68	86	67